New Jersey GAS Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

867

Monthly Usage

Ver/Rel 004010

Summary of Changes

February 10, 2000 Version 1.0	Initial Release.
February 22, 2000 Version 1.1	• Changed MEA**ZA to reflect CCF to Therm conversion factor. • Removed Unmetered Services detail loop (PTD01=BD) as no NJ gas utilities plan to send this data.
June 9,2000 Version 1.2	Replaced "How to use Implementation Guideline" Changed 1999 to 2000 in all examples Segment PTD - Added PTD04 and PTD05 to all PTD segments to identify as gas transaction QTY - Removed all references to Electric units and added Gas units MEA- Removed all references to Electric units and added Gas units Added Segments to Metered Services Loop (PTD01=PM) MEA*CF – Conversion Factor MEA**PU – Pressure Base Removed Segment MEA*ZA Corrected all examples
July 12, 2000 Version 1.3	♦ **Added segments REF*DQ and REF*SJ to Meter loop** to convey HMAD and MDQ values per New Jersey Natural Gas requirements
May 23, 2001 Version 1.4	Corrected position and loop for segment REF*DQ and REF*SJ Corrected element number and description for MEA01 for segment MEA*CF Corrected element attribute on MEA04 for segment MEA meter readings. Added Table of contents Added Data Dictionary Alphabetized REF segments in the PTD*PM (meter) loop.
June 21, 2001 Version 1.5	Corrected NJ use note for segment REF*DQ and REF*SJ Corrected example for segment QTY quality delivered in Meter Loop Corrected example for segment MEA meter readings and deleted comment Correct format for segment MEA*CF Corrected Use Note on Segment REF*11 (ESP Account Number)

How to Use the Implementation Guideline

Segment:	**REF** **Reference Identification**
Position:	030
Loop:	LIN Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Recommended by UIG
PA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included. Request: Required Accept Response: Required Reject Response: Required
NJ Use:	Same as PA
Example:	REF*12*2931839200

This section is used to show the X12 Rules for this segment. You must look further into the gray boxes below for State Rules.

The "Notes:" section generally contains notes by the Utility Industry Group (UIG).

This section is used to show the individual State's Rules for implementation of this segment.

One or more examples.

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account GDC assigned account number for end use customer.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

This column shows the use of each data element. If state rules differ, this will show "Conditional" and the conditions will be explained in the appropriate gray boxes.

These are X12 code descriptions, which often do not relate to the information we are trying to send. Unfortunately, X12 cannot keep up with our code needs so we often change the meaniESP of existing codes. See gray box for the UIG or state definitions.

This column shows the X12 attributes for each data element. Please refer to Data Dictionary for individual state rules.

M = Mandatory, O= Optional, X = Conditional

AN = Alphanumeric, N# = Decimal value, ID = Identification, R = Real

1/30 = Minimum 1, Maximum 30

867 Product Transfer and Resale Report
X12 Structure

Functional Group ID=PT

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
	050	DTM	Date/Time Reference	O	10		
	075	MEA	Measurements	O	20		
			LOOP ID - N1			5	
	080	N1	Name	O	1		
	120	REF	Reference Identification	O	12		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PTD			>1	
Must Use	010	PTD	Product Transfer and Resale Detail	M	1		
	020	DTM	Date/Time Reference	O	10		
	030	REF	Reference Identification	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	160	MEA	Measurements	O	40		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	030	SE	Transaction Set Trailer	M	1		

Notes

PTD Loops Definition

The PTD Loops are required. Some are used individually, others are used in pairs. This section describes the purpose of each PTD loop. Depending on the characteristics of the account, there may be a different number of loops.

Monthly Billed Summary Information (PTD=BB): This loop is always required for every type of account if the GDC reads the meter.

> **Monthly Billed Summary (PTD01=BB)**: One PTD per Account - Data obtained from the billing system to reflect the billing data for this account.

Metered Services Information (PTD01 = SU and PM) – These loops are used to convey the usage for metered data, at both a detail level by meter by unit of measure (PTD01=PM) and for some units of measure, at a summary level for all meters (PTD01=SU).

> **Metered Services Summary (PTD01=SU)**: Summing to the account level by unit of measure. Data is obtained from the metering system. For every PTD01=SU, there must be a PTD01=PM.
>
> **Metered Services Detail (PTD01=PM)**: One or more PTDs, one for each unit of measure for each meter. Data is obtained from the metering system. In the case of one meter reporting one unit of measure, the PTD01=PM will be the same as the PTD01=SU and both must be provided. If you have two meters and each meter measures kW and kWh, you will send one PTD SU Loop. The kWh readingsfrom Meter 1 and Meter 2 will be summed and provided in one PTD SU Loop.

Unmetered Services Information (PTD01 = BC) – These loops are used to convey the usage for any unmetered portion of an account. This information must be provided, at a minimum, at the summary level (PTD01=BC).

> **Unmetered Services Summary (PTD01=BC)**: Total Consumption for all unmetered services at the account level. Even though some of the consumption may be estimated, the consumption is reported as actual for unmetered services. Only the summary is required at this time for Unmetered Services.

Note: In New Jersey, the Unmetered Services Detail PTD loop will be not be required.

Cancellations

- The MEA is an optional segment on a cancellation.
- Cancel 867s will be by metering period, i.e. same as the original 867's. Rebills may be for multiple periods.
- The “from” and “to” dates on the cancel must match exactly with the original usage.
- On a cancellation, the signs are not reversed (don't change positive usage to negative usage). Quantities will not be negative on Cancels. Cancels should be interpreted as negative consumption.
- The consumption sent in the cancel must match the consumption sent in the original transaction.
- Cancels must be sent at the same level of detail as the original usage.

Restatements	• In order to restate usage for a period, the metering party must first completely cancel all usage for that period; then send the full set of restatement transactions. • If you receive a cancellation, you will not necessarily receive a restatement (i.e. if the data was sent to you in error in the first place). • The "from" and "to" dates on the restatement transactions do not have to match the corresponding original or cancel transactions for the same period. • Restatements across multiple cycles may match original from and to dates or may cross bill cycles. • An 867 cancel can be followed by an 867 original the next month. The metering period would include the metering period from the cancelled and the current usage.
Reporting of usage if supplier is not providing 100% of gas supply	The usage information provided in the 867 is the total usage not the prorated information. Meter reading party will always send total consumption rounded to nearest unit of measure.
GDC Definitions:	• The term GDC (Gas Distribution Company) in this document refers to the utility.
ESP Definitions:	• The term ESP (Energy Service Provider) in this document refers to the supplier.
To Dos:	•

Data Dictionary for 867 Monthly Usage

867 Monthly Usage					
Appl Field	***Field Name***	***Description***	***EDI Segment***	***Related EDI Qualifier***	***Data Type***
Header Information					
1.	Purpose Code	**00 -** Original **01 -** Cancellation - Cancels an entire Usage	BPT01		X(2)
2.	Transaction Reference Number	Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time. This number will also be shown on the related 810 document (both Bill Ready and Rate Ready), and for cases where the billing party makes the other party whole, on the 820 document.	BPT02		X(30)
3.	System Date	Date that the data was processed by the sender's application system.	BPT03		9(8)
4.	Report Type Code	"DD" Monthly Usage "KJ" Meter Changeout when Meter Agent Changes -	BPT04	BPT01	X(2)
5.	Final Indicator	Indicates if this is a final reading for that particular ESP (e.g., customer moves, customer switches, etc.).	BPT07 = **F**		X(1)
6.	Transaction Reference Number	Transaction Reference Number echoed from BPT02 of the Original Transaction	BPT09		X(30)
7.	Document Due Date/Time	The last date/time that information will be accepted by the billing party for processing the bill. If 810 is received after this date/time, and the billing party cannot process it, they must notify the non-billing party (via 824.)	DTM02 (CCYYMMDD) and DTM03(HHMM)	DTM01= **649**	DTM02= 9(8) and DTM03= 9(4)
8.	GDC Name	GDC's Name	N102	N1: N101 = **8S**	X(60)
9.	GDC Duns	GDC's DUNS Number or DUNS+4 Number	N104	N1: N101 = **8S** N103 = **1** or **9**	X(13)
10.	ESP Name	ESP's Name	N102	N1: N101 = **SJ**	X(60)
11.	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = **SJ** N103 = **1** or **9**	X(13)
12.	Customer Name	Customer Name	N102	N1: N101 = **8R**	X(60)
13.	GDC Account Number	GDC Customer Account Number	REF02	N1: N101*8R Loop REF01 = **12**	X(30)

14.	ESP Account Number	ESP Customer Account Number	REF02	N1: N101*8R Loop REF01 = **11**	X(30)
15.	Billing Type	Indicates type of billing - GDC consolidated Billing (REF02=LDC) - ESP consolidated Billing (REF02=ESP) - Dual bills (REF02=DUAL)	REF02	LIN: REF01= **BLT**	X(4)
16.	Billing Calculation Method	Indicates party to calculate bill. - GDC calculates bill (REF02=LDC) - Each calculate portion (REF02=DUAL)	REF02	LIN: REF01= **PC**	X(4)
Please refer to General Notes for details about the use of the PTD loop combinations.					
Monthly Billed Summary - Loop Required if the GDC reads the meter					
This information is obtained from the billing system to reflect billing data for this account at the unit of measure level.					
17.	Product Transfer Type	Monthly Billed Summary	PTD01= **BB**		X(2)
18.	Service Period Begin Date	Start date of the period for which the readiESP are provided	DTM02	DTM01 = **150**	9(8)
19.	Service Period End Date	End date of the period for which the readiESP are provided	DTM02	DTM01 = **151**	9(8)
20.	Quantity Qualifier	Represents whether the quantity is actual or estimated: **QD** = Actual **KA** = Estimated	QTY01		X(2)
21.	Quantity Delivered - Billed Therms	This data is taken from the GDC billing system and reflects the Therm amount on which the customer was billed.	QTY02	QTY01	-9(10).9(4)
22.	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period. **TD** – Therms	QTY03		X(2)
Metered Services Summary - Loop required if there are metered services on the account					
23.	Product Transfer Type	Metered Services Summary	PTD01= **SU**		X(2)
24.	Service Period Begin Date	Start date of the period for which the readiESP are provided	DTM02	DTM01 = **150**	9(8)
25.	Service Period End Date	End date of the period for which the readiESP are provided	DTM02	DTM01 = **151**	9(8)
26.	Quantity Qualifier	Represents whether the quantity is actual or estimated: **QD** = Actual **KA** = Estimated	QTY01		X(2)
27.	Quantity Delivered	Represents quantity of consumption delivered for service period. Contains the difference in the meter readiESP multiplied by various factors.	QTY02	QTY01	-9(10).9(4)
28.	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period. Only valid for Therms (TD).	QTY03		X(2)
Metered Services Detail - Loop Required if there are metered services on the account					

29.	Product Transfer Type	Metered Services Detail	PTD01= **PM**		X(2)
30.	Service Period Begin Date	Start date of the service period or start date of the changed in meter.	DTM02	DTM01 = **150**	9(8)
31.	Service Period End Date	End date of the service period or end date of the changed out meter.	DTM02	DTM01 = **151**	9(8)
32.	Meter Change Out Date	Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.	DTM02	DTM01 = **514**	X(12)
33.	Highest Month Average Daily (HMAD)	Customer/Meter average daily usage for month in which they had the highest use per day. This value is initially set and subject to monthly review to determine if changes are warranted based on customer usage	REF02	REF01 = DQ	9(15).99
34.	Number of Dials / Digits and related decimal positions	Needed to determine usage if meter reading rolls over during the billing period. Number of dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and number of dials to the right of the decimal.	REF02	REF01 = **IX**	9.9
35.	Meter Role	Effect of consumption on summarized total. **S** = Subtractive (consumption subtracted from summarized total). **A** = Additive (consumption contributed to summarized total - do nothing). **I** = Ignore (consumption did not contribute to summarized total - do nothing).	REF02	REF01 = **JH**	X(30)
36.	Meter Number	Serial number of this specific meter (may have multiple meters)	REF02	REF01 = **MG**	X(30)
37.	GDC Rate Code	Code indicating the rate a customer is being charged by GDC per tariff. Codes posted on GDC's Web site	REF02	REF01 = **NH**	X(30)
38.	GDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	REF01= **PR**	X(30)

39.	Maximum Daily Quantity (MDQ)	Maximum Daily Quantity (MDQ)- This is on the calculated HMAD to derive a value for a customer's peak day usage. Since this is a function of HMAD it also is initially set and subject to monthly review to determine if changes are warranted based on customer usage. This value is a fixed billable unit in NJESP Tariff.	REF02	REF01 = SJ	9(15).99
40.	Quantity Qualifier	Represents whether the quantity is actual or estimated: **QD** = Actual **KA** = Estimated	QTY01		X(2)
41.	Quantity Delivered	Represents quantity of consumption delivered for service period. Contains the difference in the meter readings.	QTY02	QTY01	9(10).9(4)
42.	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period. . Only valid for Therms (TD)	QTY03		X(2)
43.	Measurement Reference Code	Code identifying category to which measurement applies.	MEA01		X(2)
44.	Consumption	Represents quantity of consumption delivered for service period. Contains the difference in the meter readiESP (or as measured by the meter).	MEA03	MEA02 = **PRQ**	9(9).9(4)
45.	Unit of Measure	Unit of measure for readiESP.	MEA04		X(2)
46.	Beginning Reading	Value specifying beginning reading for the metering period. Factors have not been applied to this value.	MEA05		9(8).9(4)
47.	Ending/Single Reading	The ending reading or single reading for metering period. Factors have not been applied to this value.	MEA06		9(8).9(4)
48.	Measurement Significance Code	Code used to benchmark, qualify, or further define a measurement value.	MEA07		X(2)
49.	Meter Multiplier	Meter Constant - used to represent how many units are reflected by one dial or digit increment.	MEA03	MEA02 = **MU**	9(9).9(4)
50.	Conversion Factor	Represents the BTU conversion factor when MEA02 equals "CF". When no Conversion Factor is present, do not send this MEA segment.	MEA03	MEA**01** = **CF**	9(9).9(4)
51.	Pressure Base	Represents the pressure base when MEA01 equals "PU". When no pressure base is present, do not send this MEA segment.	MEA03	MEA02 = **PU**	9(9).9(4)
Unmetered Services Summary - Loop required if there are unmetered services on the account					
52.	Product Transfer Type	Unmetered Services Summary	PTD01= **BC**		X(2)

53.	Service Period Begin Date	Start date of the period for which the readiESP are provided	DTM02	DTM01 = **150**	9(8)
54.	Service Period End Date	End date of the period for which the readiESP are provided	DTM02	DTM01 = **151**	9(8)
55.	Quantity Qualifier	Represents that the quantity is actual: **QD** = Actual	QTY01		X(2)
56.	Quantity Delivered	Represents quantity of consumption delivered for service period.	QTY02	QTY01	9(10).9(4)
57.	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period. . Only valid for Therms (TD)	QTY03		X(2)

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
PA Use: Required
NJ Use: Required
DE Use for Conectiv: Required
Example: ST*867*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	**M ID 3/3**
Must Use	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Segment: **BPT** **Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data
Syntax Notes: **1** If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes: **1** BPT02 identifies the transfer/resale number.
2 BPT03 identifies the transfer/resale date.
3 BPT08 identifies the transfer/resale time.
4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:
NJ Use: Required
Examples: BPT*00*200002010001*20000131*DD
BPT*00*200002010001*20000131*DD***F
BPT*01*200002020001*20000131*DD*****2000020100001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BPT01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set	**M ID 2/2**
			00 Original	
			Conveys original readings for the account being reported.	
			01 Cancellation	
			Indicates that the readings previously reported for the account are to be ignored.	
Must Use	**BPT02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**O AN 1/30**
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.	
Must Use	**BPT03**	**373**	**Date** Date (CCYYMMDD)	**M DT 8/8**
			Transaction Creation Date – the date that the data is processed by the application system.	
Must Use	**BPT04**	**755**	**Report Type Code** Code indicating the title or contents of a document, report or supporting item	**O ID 2/2**
			DD Monthly Usage	
			For monthly metered customers only (not interval metered customers).	
Optional	**BPT07**	**306**	**Action Code** Code indicating type of action	**O AN 1/2**
			F Final – Indicates Final Usage	
			Code to indicate this is the final usage data being sent for this customer. Either the customer account is final with the GDC or the customer switched to a new ESP. No gas utilities in New Jersey expect to send this field at this time.	
Conditional	**BPT09**	**127**	**Reference Identification**	**O AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When BPT01 = 01 (cancel), this element is required and should contain the transaction identification number from BPT02 of the transaction that is being cancelled.

Segment: **DTM** **Date/Time Reference (649 = Document Due)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Required for Bill Ready Consolidated Billing where the meter reading party sends an 867 to the non-billing party, who calculates their own portion of the bill and sends the 810 to the billing party. Must be expressed in Eastern Prevailing Time. Not provided on cancel transaction.
NJ Use: Required for Bill Ready, not used in Rate Ready or Dual Billing
Examples: DTM*649*20000131*2359

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 649 Document Due The date that the non-billing party must provide the 810 transaction back to the billing party. This date must be at least 48 hours after the 867 is placed on the VAN.	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**
Must Use	**DTM03**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM format	**X TM 4/8**

Segment: **N1** **Name (8S = GDC Name)**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
NJ Use: Required
Example: N1*8S*GDC COMPANY*1*007909411

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) GDC	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name LDC Company Name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code GDC D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/20**

Segment: **N1** **Name (SJ = Service Provider)**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
NJ Use: Required
Example: N1*SJ*ESP COMPANY*9*007909422ESP

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider ESP	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name ESP Company Name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code ESP D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/20**

Segment: **N1** **Name (8R = End Use Customer)**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Please note that while you may place your N1 segments in any order, the REF segments that follow must be contained within the N1*8R loop.
NJ Use: Required
Example: N1*8R*CUSTOMER NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer End Use Customer	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Customer Name	**X AN 1/60**

Segment: **REF** **Reference Identification (12 = GDC Account Number)**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required
Example: REF*12*1239485790

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account GDC-assigned account number for the end use customer. Must appear as it does on the customer's bill.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (11 = ESP Account Number)**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Conditional - GDC's are required to provide this data if store in their system

GDCs are not required to store ESP account number their system. GDCs if storing will do so if provided on 814 enrollment and/or 814 change. If GDC does store ESP account number, GDC will provide ESP account number on all transactions.
All GDCs except for Elizabethtown are storing ESP account number.
Example: REF*11*1394959

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number ESP-assigned account number for the end use customer.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (BLT = Billing Type)**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required
Example: REF*BLT*LDC

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the GDC or ESP, or whether each party will render their own bill. See REF02 for valid values.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is BLT, valid values for REF02 are: LDC - The GDC bills the customer ESP - The ESP bills the customer DUAL - Each party bills the customer for their portion **Note:** Code for GDC consolidated billing is "LDC" for gas.	**X AN 1/30**

Segment: **REF** **Reference Identification (PC = Party Calculating Charges)**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required
Example: REF*PC*LDC

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PC Production Code Identifies the party that is to calculate the charges on the bill.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is PC, valid values for REF02 are: LDC - The GDC calculates the charges on the bill (Rate Ready) DUAL - Each party calculates its portion of the bill (Dual or Bill Ready) **Note:** Code for GDC consolidated billing is "LDC" for gas.	**X AN 1/30**

IF …			**THEN…**	
Bills the	**Calculates**		**Billing Party**	**Calc. Party**
Customer	**GDC Portion**	**ESP Portion**	**REF*BLT**	**REF*PC**
LDC	GDC	GDC	LDC	GDC
LDC	GDC	ESP	LDC	DUAL
ESP	GDC	ESP	ESP	DUAL
DUAL	GDC	ESP	DUAL	DUAL

Be careful to use the UIG Standard Code Values LDC and ESP rather than the New Jersey gas versions of those codes.

Segment: **PTD** **Product Transfer and Resale Detail (BB = Billed Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.
NJ Use: Required
Example: PTD*BB***07*GAS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer BB Monthly Billed Summary This information is obtained from the billing system to reflect the billing data for this account at the unit of measure level.	**M**	**ID 2/2**
Must Use	PTD04	128	**Reference Identification Qualifier** Code qualifying the Reference Identification 07 Add-on system Number Used to Identify Product (Gas or Electric)	X	ID 2/3
Must Use	PTD05	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier GAS Identify Product being transferred	X	AN 1/30

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment: **DTM** **Date/Time Reference (150 = Service Period Start)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required
Example: DTM*150*20000101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (151 = Service Period End)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required
Example: DTM*151*20000131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **QTY** **Quantity (Billed Quantity)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Billed Therms
NJ Use: Required
Example: QTY*D1*22348*TD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity D1 Billed Used when Quantity in QTY02 is a "Billed" quantity.	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity	**X R 1/15**
Must Use	**QTY03**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken TD Therm Billed therm as shown on the customer's bill.	**M ID 2/2**

Segment: **PTD** **Product Transfer and Resale Detail (SU = Metered Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.
NJ Use: Does not include unmetered use.
Example: PTD*SU***07*GAS

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer		**M**	**ID 2/2**
			SU	Summary		
				A summary loop will be provided for each type of consumption for every unit of measure for all meters in the account.		
Must Use	PTD04	128	**Reference Identification Qualifier** Code qualifying the Reference Identification		X	ID 2/3
			07	Add-on system Number		
				Used to Identify Product (Gas or Electric)		
Must Use	PTD05	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		X	AN 1/30
				GAS		
				Identify Product being transferred		

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment: **DTM** **Date/Time Reference (150 = Service Period Start)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required if account has metered services.
Example: DTM*150*20000101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (151 = Service Period End)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required if account has metered services.
Example: DTM*151*20000131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: QTY Quantity (**Quantity Delivered or Estimated)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: There will be one QTY loop for each of the QTY03 Units of Measurement listed below that are measured on this account.
NJ Use: Required if account has metered services
Example: QTY*QD*22348*TD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Used when Quantity in QTY02 is Estimated QD Quantity Delivered Used when Quantity in QTY02 is Actual	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity	**X R 1/15**
Must Use	**QTY03**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken TD Therms	**M ID 2/2**

Segment: **PTD** **Product Transfer and Resale Detail (PM = Meter Detail)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.

There will be a separate PTD loop for each unit of measurement for each meter on the account.
NJ Use: Required if this is a metered account.
Example: PTD*PM***07*GAS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer PM Physical Meter Information	**M**	**ID 2/2**
Must Use	PTD04	128	**Reference Identification Qualifier** Code qualifying the Reference Identification 07 Add-on system Number Used to Identify Product (Gas or Electric)	X	ID 2/3
Must Use	PTD05	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier GAS Identify Product being transferred	X	AN 1/30

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment: **DTM** **Date/Time Reference (150 = Service Period Start)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: This date reflects the beginning of the date range for this meter for this billing period.

This specific PTD loop is required if there are metered services on the account.
NJ Use: Required, unless a "DTM*514" is substituted for this code.
Example: DTM*150*20000101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (151 = Service Period End)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: This date reflects the end of the date range for this meter for this billing period.

This specific PTD loop is required if there are metered services on the account.
NJ Use: Required, unless a "DTM*514" is substituted for this code.
Example: DTM*151*20000131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (514 = Exchanged meter read date)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.
NJ Use: Required when a meter is changed and the meter agent does not change.
Example: Date Range in the first PTD is shown as:
DTM*150*20000201
DTM*514*20000214

Date Range in the second PTD is shown as:
DTM*514*20000214
DTM*151*20000228

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 514 Transferred Exchanged meter read date	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **REF** **Reference Identification (DQ = Highest Month Average Daily (HMAD))**
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

NJ Use:	Used by New Jersey Natural Gas Only
Example:	REF*DQ*10.9

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**
			DQ Delivery Quote Number Highest Month Average Daily (HMAD) Customer/Meter average daily usage for month in which they had the highest use per day. This value is initially set and subject to monthly review to determine if changes are warranted based on customer usage	
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (IX = Number of Dials)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required for meters with dials
Examples: REF*IX*6.0
REF*IX*5.1
REF*IX*4.2

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IX Rate Card Number Number of Dials on the Meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
Optional	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Optional use: See Meter Type (REF*MT) on 814 Enrollment for valid codes.	**X AN 1/80**

# Dials	Positions to left of decimal	Positions to right of decimal	X12 Example
6	6	0	REF*IX*6.0
6	5	1	REF*IX*5.1
6	4	2	REF*IX*4.2

Segment: **REF** **Reference Identification (JH = Meter Role)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required if consumption is provided at a meter level
Example: REF*JH*A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Meter Role	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is JH, valid values for REF02 are: S = Subtractive - this consumption needs to be subtracted from the summarized total. A = Additive - this consumption contributed to the summarized total (do nothing). I = Ignore - this consumption did not contribute to the summarized total (do nothing).	**X AN 1/30**

Segment: **REF** **Reference Identification (MG = Meter Number)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Required if this is a metered account and the meter is on the account at the end of the period. For some utilities, they may not be able to provide the actual meter number for a meter that has been changed out during the month. In that case, the REF*MG will not be sent.
Example: REF*MG*2222277S

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (NH = LDC Rate Code)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
NJ Use: Optional
Example: REF*NH*GS1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH LDC Rate Code	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (PR = LDC Rate Subclass)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: This iteration of the REF segment is used for meter level information.
NJ Use: Conditional: If maintained by utility, must be sent for each meter loop that is used for billing purposes.
Example: REF*PR*123

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number LDC Rate Subclass – Used to provide further classification of a rate.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **REF** **Reference Identification (SJ = Maximum Daily Quantity (MDQ))**
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

NJ Use:	Used by New Jersey Natural Gas Only
Example:	REF*SJ*10.9

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SJ Set Number Maximum Daily Quantity (MDQ)- This is on the calculated HMAD to derive a value for a customer's peak day usage. Since this is a function of HMAD it also is initially set and subject to monthly review to determine if changes are warranted based on customer usage. This value is a fixed billable unit in NJESP Tariff.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Note The two values (MDQ/HMAD) are used to derive the other fixed billable unit (Maximum Daily Balance Quantity) **(MDB):** This is the maximum quantity of gas balanced, by NJNG, for a customer/meter on a daily basis. NJNG does not need a home for MDB as it is calculated as follows (MDQ less HMAD = MDB	**X AN 1/30**

Segment: QTY Quantity (**Quantity Delivered or Estimated)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: There will be one QTY loop for **each** of the QTY03 Units of Measurement listed below for each meter that is measured on this account.

If a meter measures total usage, as well as on-peak and off-peak there will be three QTY loops sent within one PTD01=PM loop. The MEA segment that follows each QTY will specify which time of use the QTY applies to.
NJ Use: Required if there are metered services on the**.**
Example: QTY*QD*22348*TD

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity		**M**	**ID 2/2**
			KA	Estimated		
			QD	Quantity Delivered		
				Used when Quantity in QTY02 is Actual		
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity		**X**	**R 1/15**
Must Use	**QTY03**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		**M**	**ID 2/2**
			TD	Therms		

Segment: **MEA** **Measurements (Meter Readings)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: The MEA segment is sent for each QTY loop. The MEA will indicate the "time of use" that applies to the QTY. If meter readings are included in the MEA, they will indicate the "time of use" that the meter readings apply to.
NJ Use: Required (optional on a cancellation
Examples: MEA*AA*PRQ*22348*HH***51

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies		**O ID 2/2**
			AA	Meter reading-beginning actual/ending actual	
			AE	Meter reading-beginning actual/ending estimated	
			AF	Actual Total	
			BO	Meter Reading as Billed	
				Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	
			EA	Meter reading-beginning estimated/ending actual	
			EE	Meter reading-beginning estimated/ending estimated	
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies		**O ID 1/3**
			PRQ	Consumption	
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement		**X R 1/20**
			Represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.		

Must Use	**MEA04**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**X**	**ID**	**2/2**
			HH Hundred Cubic Feet TZ Thousand Cubic Feet			
Conditional	**MEA05**	**740**	**Range Minimum** The value specifying the minimum of the measurement range	**X**	**R**	**1/20**
			Beginning reading Required for Residential. If the meter provides beginning and ending reads for on and off peak usage, then you must provide beginning and ending reads and consumption. If the meter does not provide beg/ending reads, you only provide consumption.			
Must Use	**MEA06**	**741**	**Range Maximum** The value specifying the maximum of the measurement range	**X**	**R**	**1/20**
			Ending reading or single reading (e.g., Hundred Cubic Feet). Required for Residential. If the meter provides beginning and ending reads for on and off peak usage, then you must provide beginning and ending reads and consumption. If the meter does not provide beg/ending reads, you only provide consumption.			
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	**O**	**ID**	**2/2**
			41 Off Peak 42 On Peak 43 Intermediate 51 Total Totalizer 66 Shoulder			

Segment: **MEA** **Measurements (MU = Meter Multiplier)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
NJ Use: Required for a meter that has a meter multiplier other than 1.
Example: MEA**MU*2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement Represents the meter constant when MEA02 equals "MU". When no multiplier is present, do not send this MEA segment.	**X R 1/20**

Segment: **MEA** **Measurements (CF = Conversion Factor)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
NJ Use: The power factor field is used for gas to send the BTU conversion factor. This will allow a supplier to convert the CCF meter reading data to therms for billing.

- **New Jersey Natural Gas and South Jersey Gas will send therm factor in this segment (Billed therms = ccf * Conversion Factor).**
- **Elizabethtown and PSE&G will send a heat content of ccf in this segment and will require the an addition segment containing the Pressure factor for conversion of ccf to Billed therms (Billed Therms = ccf * Power Base * Pressure Base)**

Note that Measurement Qualifier is sent in MEA01 not MEA02
Example: MEA*CF**1.025

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies CF Conversion Factor Conversion Factor - Relationship between CCFs and BTU.	**O ID 1/3**
Must Use	**MEA03M**	**739**	**Measurement Value** The value of the measurement Represents the BTU conversion factor when MEA02 equals "CF". When no Power Factor is present, do not send this MEA segment.	**X R 1/20**

Segment: **MEA** **Measurements PU= Pressure Base)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
NJ Use: The power factor field is used for gas to send the BTU conversion factor. This will allow a supplier to convert the CCF meter reading data to therms for billing**.**

- **Not used for New Jersey Natural Gas or South Jersey Gas.**
- **Elizabethtown and PSE&G will send a pressure factor in this segment. (Billed Therms = ccf * Conversion Factor * Pressure Base).**

Example: MEA**PU*1.025

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies	**O ID 1/3**
			PU Pressure Base Factor used to convert ccf to Billed Therms.	
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
			Represents the pressure factor when MEA01 equals "PU". When no Power Factor is present, do not send this MEA segment.	

Segment: **PTD** **Product Transfer and Resale Detail (BC = Unmetered Services Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.
NJ Use: Required if there are unmetered services on this account.
Example: PTD*BC***07*GAS

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer		**M**	**ID 2/2**
			BC	Unmetered Services Summary		
Must Use	PTD04	128	**Reference Identification Qualifier** Code qualifying the Reference Identification		X	ID 2/3
			07	Add-on system Number Used to Identify Product (Gas or Electric)		
Must Use	PTD05	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		X	AN 1/30
				GAS Identify Product being transferred		

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment: DTM **Date/Time Reference (150 = Service Period Start)**

Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required if there are unmetered services on this account
Example: DTM*150*20000101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: DTM Date/Time Reference (151 = Service Period End)
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
NJ Use: Required if there are unmetered services on this account
Example: DTM*151*20000131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **QTY** **Quantity (Quantity Delivered)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: This loop is required when there are unmetered services on the account. This will contain the total quantity for the unmetered services.
NJ Use: Required is there are unmetered services on the account -
Example: QTY*QD*500*TD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity QD Quantity Delivered Used when Quantity in QTY02 is Actual. Whether unmetered services are estimated, calculated, or actual, they will be coded as actual.	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity	**X R 1/15**
Must Use	**QTY03**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken TD Therms	**M ID 2/2**

Segment: **SE** **Transaction Set Trailer**
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
PA Use: Required
NJ Use: Required
DE Use for Conectiv: Required
Example: SE*28*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Must Use	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

EXAMPLES:

General Note:

For the detail portion, you may send your PTD loops in any order; this is a function of ANSI. The indicator in the PTD loop tells what information is contained in the loop. A translator's mapper will map the loop according to your instructions.

Example 1: Elizabethtown or PSE&G account with one meter

Following example is for Elizabethtown or PSE&G account with one meter. Meter multiplier is 2, Total consumption is 100 Therms This example includes the Summary loop which summarizes Therms and the Monthly Billed Summary for billed therms,.

BPT*00*REF1-990125*20000125*DD	Meter detail loop
DTM*649*20000128*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME	Customer name
REF*12*1234567891	LDC Account number
REF*45*9395819001	Old LDC Account number (to be sent for 60 days after a account number change)
REF*11*1394951	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*100*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	
DTM*151*20000131	
QTY*QD*100*TD	Calculated summary of all meters for therms
PTD*PM***07*GAS	Meter detail loop for therms
DTM*150*20000101	
DTM*151*20000131	
REF*MG*11111111	Meter number
REF*NH*RES	LDC Rate
REF*PR*RESRT	LDC Rate Subclass
REF*JH*A	Additive meter
REF*IX*6.0	Number of dials or digits
REF**PU*	
QTY*QD*100*TD	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*100*HH*1201*1250*51	Total consumption with begin/end reads
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Base

Example 2 New Jersey Natural Gas or South Jersey Gas account with one meter

Following example is for New Jersey Natural Gas or South Jersey Gas account with one meter. Meter multiplier is 2, Total consumption is 100 Therms This example includes the Summary loop which summarizes the Monthly Billed Summary for billed therms

BPT*00*REF1-990155*20000131*DD	Meter detail loop
DTM*649*20000202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME	Customer name
REF*12*1234567890	LDC Account number
REF*45*9395819000	Old LDC Account number (to be sent for 60 days after a account number change)
REF*11*1394959	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*100*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*100*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*11111111	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*100*TD	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*100*HH*2500*2550*51	Total consumption, and begin and end readiings
MEA**PU*1	Therm Factor
PTD*PM*07*GAS**	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*11111111	
REF*JH*A	
REF*IX*6.0	Number of dials or digits

Selected Billing Test scenarios:

Single meter totalized (one rate),

- Month1 consumption is 1234.

BPT*00*REF01-990201*20000201*DD	Meter detail loop
DTM*649*****DT*200002041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*111111111111111	LDC Account number
REF*11*1394959	ESP Account number
PTD*BB*07*GAS**	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*1234*TD	Monthly billed therms
PTD*SU*07*GAS**	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*1234*TD	Calculated summary of all metered for therms
PTD*PM*07*GAS**	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222222S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*1234*TD	Consumption
MEA*AA*PRQ*1234*TD*32000*33234*51	Total consumption, and begin and end readings
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Single meter totalized. Meter switched by LDC during month 1

- . Meter 1 usage 652, meter 2 usage 235.

BPT*00*REF06-990201*20000201*DD	Meter detail loop
DTM*649*****DT*200002041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB*07*GAS**	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*887*TD	Monthly billed therms
PTD*SU*07*GAS**	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*887*TD	Calculated summary of all metered for therms
PTD*PM*07*GAS**	Meter detail loop – Meter 1
DTM*150*20000101	Start period
DTM*514*20000121	End period
REF*MG*2222266S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*652*TD	Consumption – Meter 1
MEA*AA*PRQ*652*HH*20000*20652*51	Total consumption, with begin/end readiESP– Meter 1
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor
PTD*PM*07*GAS**	Meter detail loop – Meter 2
DTM*514*20000122	Start period
DTM*151*20000131	End period
REF*MG*3333366S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*235*TD	Consumption – Meter 2
MEA*AA*PRQ*235*HH*0*235*51	Total consumption, with begin/end readings– meter 2
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Single meter..

- Month 1 information: Therms 22,348

BPT*00*REF07-990201*20000201*DD	Meter detail loop
DTM*649*****DT*200002041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT7	Customer name
REF*12*77777777777	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*22348*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*22348*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*22348*TD	Consumption
MEA*AA*PRQ*22348*HH*130000*152348*51	Total consumption, with begin/end readings
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Multiple meters.

- Therms meter (non-interval). Month 1 Meter 1 information: Therms 22,348 . Meter 2 information: Therms 20,000.

BPT*00*REF07-990201*20000201*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT8	Customer name
REF*12*888888888888	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*42348*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*42348*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter 1 detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*22348*TD	Consumption
MEA*AA*PRQ*22348*HH*130000*152348*51	Total consumption, with begin/end readings
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor
PTD*PM***07*GAS	Meter 2 detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*1234577S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*20000*TD	Consumption
MEA*AA*PRQ*20000*HH*185000*205000*51	Total consumption, with begin/end readings
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Multiple services, metered and unmetered.

- Metered consumption is 763, unmetered is 48.

BPT*00*REF09-990201*20000201*DD	Meter detail loop
DTM*649*****DT*200002041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT9	Customer name
REF*12*99999999999	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*811*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*763*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222299S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*763*TD	Consumption
MEA*AA*PRQ*763*HH*12000*12763*51	Total consumption, with begin/end readings
PTD*BC***07*GAS	Unmetered Services Summary
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*48*TD	Unmetered consumption

Unmetered Service alone.

- Unmetered consumption is 97.

BPT*00*REF10-990201*20000201*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT10	Customer name
REF*12*100000000	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*97*TD	Monthly billed therms
PTD*BC***07*GAS	Unmetered Services Summary
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*97*TD	Unmetered consumption

Single meter totalized (one rate),

- month 2 consumption is 867.

BPT*00*REF01-990301*20000301*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*111111111111111	LDC Account number
REF*11*1394959	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
QTY*D1*867*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
QTY*QD*867*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
REF*MG*2222222S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*867*TD	Consumption
MEA*AA*PRQ*867*HH*33244*34111*51	Total consumption, and begin and end readings
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Cancel Months 1 and 2.

- Separate documents must be sent for each month.

BPT*01*REF01-990310A*20000310*DD*****REF01-090201	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*111111111111111	LDC Account number
REF*11*1394959	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*1234*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*1234*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222222S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*1234*TD	Consumption
MEA*AA*PRQ*1234*HH*32000*33234*51	Total consumption, and begin and end readings(not all LDCs can provide MEA on a cancel)
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

BPT*01*REF01-990310B*20000301*DD*****REF01-990301	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*1	LDC Account number
REF*11*1394959	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
QTY*D1*867*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
QTY*QD*867*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000201	Start period
DTM*151*20000228	End period
REF*MG*2222222S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*867*TD	Consumption

MEA*AA*PRQ*867*HH*33234*34101*51	Total consumption, and begin and end readings(not all LDCs can provide MEA on a cancel)
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Restatement of usage for Months 1 and 2.

- Total usage for 2 months is 2043.

BPT*00*REF01-990310C*20000310*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*111111111111111	LDC Account number
REF*11*1394959	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000228	End period
QTY*D1*2043*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000228	End period
QTY*QD*2043*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000228	End period
REF*MG*2222222S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*2043*TD	Consumption
MEA*AA*PRQ*2043*HH***51	Total consumption, and readingsnot known
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

FINAL during month 2.

- Single meter with time of day billing.

BPT*00*REF04-990301*20000301*DD***F	Meter detail loop
DTM*649*****DT*200003041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT4	Customer name
REF*12*4444444444	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000201	Start period
DTM*151*20000224	End period
QTY*QD*256*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000201	Start period
DTM*151*20000224	End period
QTY*QD*256*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000201	Start period
DTM*151*20000224	End period
REF*MG*2222233S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*256*TD	Consumption
MEA*AA*PRQ*256*HH*20100*20356*51	Total consumption
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor

Single meter.

- Month 1 information: Therms22,348

BPT*00*REF07-990201*20000201*DD	Meter detail loop
DTM*649*****DT*200002041700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT17	Customer name
REF*12*17	LDC Account number
REF*11*13949594	ESP Account number
PTD*BB***07*GAS	Monthly Billed Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*D1*22348*TD	Monthly billed therms
PTD*SU***07*GAS	Metered services Summary loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
QTY*QD*22348*TD	Calculated summary of all metered for therms
PTD*PM***07*GAS	Meter detail loop
DTM*150*20000101	Start period
DTM*151*20000131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*22348*TD	Consumption
MEA*AA*PRQ*22348*HH***51	Consumption
MEA*CF**1	Conversion Factor
MEA**PU*1	Pressure Factor